JPRS L/9638 1 April 1981

Reference Aid

DIRECTORY OF JPRS NONSERIAL PUBLICATIONS

January-December 1980



NOTE

JPRS publications contain information primarily from foreign newspapers, periodicals and books, but also from news agency transmissions and broadcasts. Materials from foreign-language sources are translated; those from English-language sources are transcribed or reprinted, with the original phrasing and other characteristics retained.

Headlines, editorial reports, and material enclosed in brackets [] are supplied by JPRS. Processing indicators such as [Text] or [Excerpt] in the first line of each item, or following the last line of a brief, indicate how the original information was processed. Where no processing indicator is given, the information was summarized or extracted.

Unfamiliar names rendered phonetically or transliterated are enclosed in parentheses. Words or names preceded by a question mark and enclosed in parentheses were not clear in the original but have been supplied as appropriate in context. Other unattributed parenthetical notes within the body of an item originate with the source. Times within items are as given by source.

The contents of this publication in no way represent the policies, views or attitudes of the U.S. Government.

COPYRIGHT LAWS AND REGULATIONS GOVERNING OWNERSHIP OF MATERIALS REPRODUCED HEREIN REQUIRE THAT DISSEMINATION OF THIS PUBLICATION BE RESTRICTED FOR OFFICIAL USE ONLY.

JPRS L/9638

1 April 1981

REFERENCE AID

Directory of JPRS Nonserial Publications January-December 1980

CONTENTS

FOREWORD	1
CATEGORY I - AD HOC SCIENTIFIC AND TECHNICAL	2
USSR Aerospace Aerospace/Biology and Medicine (no publications given) Agriculture (no publications given)	2
Biology and Medicine Chemistry (no publications given)	2
Earth Sciences and Astronomy Electronics Engineering Fuels and Propulsion (no publications given)	4 5 6
Materials and Metallurgy Mathematics and Data Processing (no publications given) Nuclear Science and Technology (no publications given)	7
Physics and Mathematics Miscellaneous (no publications given) Cybernetics (no publications given)	7
Scientists and Scientific Organizations	7
INTERNATIONAL	8
CATEGORY II - AD HOC SOCIAL SCIENCES	9
USSR	9
CHINA	12

- a - [I - INT FOUO]

FOREWORD

This directory lists the JPRS nonserial publications issued in 1980. In contrast to the JPRS serial publications, the JPRS nonserial publications are usually translations of monographs or reference aids in all fields and areas and are issued under their own titles.

Each entry of the directory shows the JPRS number, date of JPRS publication, the translated title of the original text, and the full source information as printed in the JPRS publication. Copyrighted, FOR OFFICIAL USE ONLY reports are designated by "L/" preceding a four digit number.

The JPRS nonserial publications are announced in the semimonthly NTIS Government Reports Announcements (GRA) under the appropriate COSATI subject category.

1

FOR OFFICIAL USE ONLY

CATEGORY I - AD HOC SCIENTIFIC AND TECHNICAL

USSR - A. AEROSPACE

JPRS L/8845 (7 Jan 80) 204 pp

COSMODROME

Moscow KOSMODROM in Russian 1977 signed to press 23 Mar 77 pp 1-312 Book edited by Professor A. P. Vol'skiy, Voyenizdat Publishing House 10,000 copies

JPRS L/9167 (30 Jun 80) 368 pp

DYNAMICS OF ROCKET MOTOR SYSTEMS

Moscow STATIKA I DINAMIKA RAKETNYKK DVIGATEL'NYKH USTANOVOK V DVUKH KNIGAKH ("Statics and Dynamics of Rocket Motor Systems in Two Volumes") in Russian 1978 signed to press 15 Mar 78 pp 1-320 Volume Two ("Dynamics") of book by Ye. B. Volkov, T. A. Syritsyn and G. Yu. Mazin, Mashinostroyeniye Publishers, 1550 copies; Volume One ("Statics") was published in JPRS L/8627, 21 August 1979, entitled "Statics of Rocket Motor Systems"

JPRS L/9351 (17 Oct 80) 204 pp

LANDING OF SPACE VEHICLES ON PLANETS

Moscow POSADKA KOSMICHESKIKH APPARATOV NA PLANETY (Landing of Space Vehicles on Planets) in Russian 1978 signed to press 16 May 78 pp 1-160 Book by Vladimir Ivanovich Bazhenov and Mikhail Ivanovich Osin, Mashinostroyeniye, 2,500 copies, 160 pages, UDC 629.875.001

USSR - C. BIOLOGY AND MEDICINE

JPRS L/9165 (27 Jun 80) 256 pp

FUNDAMENTALS OF ERGONOMICS

Moscow OSNOVY ERGONOMIKI in Russian 1979 signed to press 27 Jul 79 pp 3-36, 67-202, 206-224, 243-308 Chapters 1, 3-5, 7 and 8 from book by V. P. Zinchenko and V. M. Munipov, Moscow University Press, 21,800 copies

2

JPRS L/9214 (24 Jul 80) 225 pp

EVOKED POTENTIALS IN PSYCHOLOGY AND PSYCHOPHYSIOLOGY

Moscow VYZVANNYE POTENTSIALY V PSIKHOLOGII I PSIKHOFIZIOLOGII in Russian 1979 signed to press 24 Mar 79 pp 1-216 Book by E. M. Rutman, USSR Academy of Sciences, Physiology Division, Izdatel'stvo "Nauka", 1,850 copies

JPRS L/9217 (24 Jul 80) 243 pp

NEUROPHYSIOLOGICAL STUDY OF SYSTEMIC MECHANISMS OF BEHAVIOR

Moscow NEYROFIZIOLOGICHESKOYE IZUCHENIYE SISTEMNYKH MEKHANIZMOV POVEDNIYA in Russian 1978 signed to press 31 Aug 78 pp 2-240 Book by V. B. Shuyrkov, Izdatel'stvo "Nauka", 3,150 copies

JPRS L/9247 (12 Aug 80) 140 pp

PSYCHOPHYSIOLOGICAL BASES OF SCIENTIFIC ORGANIZATION OF LABOR

Complete translation of the Russian-language book by Sergey Aleksandrovich Kosilov: "Psikhofiziologicheskiye osnovy nauchnoy organizatsii truda," published in Moscow by Izdatel'stvo "Ekonomika"

JPRS L/9316 (26 Sep 80) 172 pp

BIBLIOGRAPHY ON PARAPSYCHOLOGY (PSYCHOTRONICS, PSYCHOENERGETICS, PSYCHOBIOPHYSICS) AND RELATED PROBLEMS

Moscow BIBLIOGRAFIYA PO PARAPHSIKHOLOGII [PSIKHOTRONIKE, PSIKHOENERGETIKE, PSIKHOBIOFIZIKE] I SMEZHNYM PROBLEMAM in Russian 1979 pp 1-116
Book by E. K. Naumov and L. V. Vilenskaya, 116 pages. Literature published in the USSR

JPRS L/9410 (25 Nov 80) 54 pp

MANUAL ON LABOR HYGIENE

Moscow SPRAVOCHNIK PO GIGIYENE TRUDA in Russian 1979 signed to press 19 Apr 79 pp 2, 42-72, 114-118, 445-446 Annotation, table of contents, chapters on Electromagnetic Fields, Ionizing Radiation and Radioactive Substances, and Lasers from the book edited by B.D. Karpova, V. Ye. Kovsnilo, Izdatel'stvo "Meditsina", 30,000 copies, 447 pages, UDC 613.6(035)

3

FOR OFFICIAL USE ONLY

JPRS L/9420 (1 Dec 80) 128 pp

BIONICS

Kiev BIONIKA in Russian 1979 signed to press 14 Jun 79 No 13, pp 2-100 Translation of the book BIONIKA. RESPUBLIKANSKIY MEZHVEDOMSTVENNYY SBORNIK. OSNOVAN V 1965 g. (Bionics. Republic Interagency Collection. Founded in 1965.) from the Academy of Sciences UkSSR, Institute of Hydromechanics, Editor-in-Chief G. V. Logvinovich, Izdatel'stvo "Naukova Dumka", 1,000 copies, 100 pages

JPRS 76944 (5 Dec 80) 94 pp

ANTHRAX

Moscow SIBIRSKAYA YAZVA in Russian 1970 signed to press 25 Mar 70 pp 1-128 Book by P. N. Burgasov, B. L. Cherkasskiy, L. M. Marchuk and Yu. F. Shcherbak, Izdatel'stvo "Meditsina," 5,000 copies, 128 pages

USSR - E. EARTH SCIENCES AND ASTRONOMY

JPRS L/9269 (25 Aug 80) 124 pp

LABORATORY ON THE SEA BOTTOM

Leningrad LABORATORIYA NA MORSKOM DNE in Russian 1977 signed to press 22 Apr 77 pp 1-135 Book by Pavel Andreyevich Borovikov, Gidrometeoizdat, 50,000 copies

JPRS L/9289 (8 Sep 80) 115 pp

TINRO-2 IN THE OCEAN

Leningrad TINRO-2 V OKEANE in Russian 1977 signed to press 14 Nov 77 pp 1-152 Text of book by M. I. Tirs, Izdatel'stvo "Sudostroyeniye," 60,000 copies, 152 pages, UDC 629.127.4

JPRS L/9326 (2 Oct 80) 379 pp

WORLD OCEAN EXPLORATION AND ENGINEERING PROBLEMS

Leningrad PROBLEMY ISSLEDOVANIYA I OSVOYENIYA MIROVOGO OKEANA in Russian 1979 signed to press 30 Oct 79 pp 7-403 Book edited by A. I. Voznesenskiy, Sudostroyeniye, 4,500 copies, 408 pages

4

FOR OFFICIAL USE ONLY

JPRS L/9404 (20 Nov 80) 308 pp

AEROSPACE METHODS FOR THE STUDY OF SOILS

Moscow AEROKOSMICHESKIYE METODY IZUCHENIYA POCHV (Aerospace Methods for the Study of Soils) in Pussian 1979 signed to press 14 Dec 79 pp 1-280 Book by Valeriy L'vovich Andronikov, Izdatel'stvo "Kolos", 3,400 copies, 280 pages, UDC 631.4

USSR - F. ELECTRONICS

JPRS L/8860 (10 Jan 80) 125 pp

LONG-DISTANCE PROPAGATION OF RADIO WAVES IN THE IONOSPHERE

Moscow DAL'NEYE RASPROSTRANENIYE RADIOVOLN V IONOSFERE in Russian 1979 signed to press 24 Apr 79 pp 1-152 Book by A. G. Shlionskiy, "Nauka" Publishers, 850 copies

JPRS L/8896 (31 Jan 80) 291 pp

MULTIPROGRAM WIRE BROADCASTING

Moscow MNOGOPROGRAMMOYE PROVODNOYE VESHCHANIYE in Russian 1974 signed to press 17 Sep 74 pp 1-303 Book by V. Ya. Dzyadchik, S. A. Zaslavskiy, B. N. Filatov and A. V. Shershakova, "Svyaz" Publishers, 11,600 copies

JPRS L/8958 (29 Feb 80) 141 pp

FUNDAMENTALS OF TELEPHONY AND THE MULTIPLEXING OF CITY TELEPHONE CIRCUITS

Moscow OSNOVY TELEFONI I KABEL'NYKH TSEPEY GTS in Russian 1973 pp 126-261 Chapters 6-9 of book by Ts. L. Tarasova and A. S. Korneyev, Svyaz' Publishers

JPRS L/9060 (30 Apr 80) 311 pp

ELECTROMAGNETIC EFFECTS ON COMMUNICATIONS

Moscow ELEKTROMAGNITNYYE VLIYANIYA NA SOORUZHENIYA SVYAZI in Russian 1979 signed to press 15 Jun 79 pp 1-263 Book by M. N. Mikhaylov, L. D. Razumov, S. A. Sokolov, "Svyaz'" Publishing House, 9000 copies

5

USSR - G. ENGINEERING

JPRS L/8849 (8 Jan 80) 76 pp

INSTRUMENTS AND SYSTEMS FOR MEASURING VIBRATION, NOISE AND SHOCK

Moscow PRIBORY I SISTEMY DLYA IZMERENIYA VIBRATSII, SHUMA I UDARA in Russian 1978 signed to press 1 Aug 78 pp 112-117, 143-196, 232-239 Excerpts from book edited by V. V. Klyuyev, "Mashinostroyeniye" Publishers, 440 pages, 30,000 copies

JPRS L/8962 (3 Mar 80) 182 pp

ABSORPTION OF VIBRATION ON SHIPS

Leningrad VIBROPOGLOSHCHENIYE NA SUDAKH in Russian 1979 signed to press 21 Dec 78 pp 1-184 Book by A. S. Nikiforov, Izdatel'stvo "Sudostroyeniye", 2,700 copies

JPRS L/9179 (3 Jul 80) 545 pp

MANUAL ON SHIP ACOUSTICS

Leningrad SPRAVOCHNIK PO SUDOVOY AKUSTIKE [Manual on Ship Acoustics] in Russian 1978 signed to press 26 Oct 78 pp 2-91, 94-103, 160-480 Excerpts from book edited by Doctor of Engineering Sciences, Professor I. I. Klyukin and Candidate of Engineering Sciences I. I. Bogolepov, Izdatel'stvo Sudostroyeniye, 6,600 copies

JPRS L/9183 (7 Jul 80) 49 pp

ORGANIZATION AND TECHNOLOGY OF RIVER-SHIP REPAIR

Moscow ORGANIZATSIYA I TEKHNOLOGIYA SUDOREMONTA in Russian 1977 pp 5-8, 17-38, 49-61, 83-87, 97-98, 132-134, 152-153 Excerpts from the book "The Organization and Technology of Ship Repair," by V. F. Fedorov

USSR - I. MATERIALS AND METALLURGY

JPRS L/9371 (28 Oct 80) 164 pp

METHODS OF DYNAMIC TESTING OF RIGID POLYMER MATERIALS

Riga METODY DINAMICHESKIKH ISPYTANIY ZHESTKIKH POLIMERNYKH MATERIALOV in Russian 1978 signed to press 29 Jun 79 pp 4-182 Book by Semen Mikhaylovich Kokoshvili, Institute of Mechanics of Polymers, Lithuanian Academy of Sciences, Izdatel'stvo Zinatne, 1300 copies, 182 pages, UDC 620.178.7

USSR - L. PHYSICS AND MATHEMATICS

JPRS L/9131 (9 Jun 80) 94 pp

HIGH-POWER LASERS AND THEIR APPLICATION

Moscow MOSHCHNYYE LAZERY I IKH PRIMENENIYE in Russian 1980 signed to press $11~\mathrm{Jun}~79~\mathrm{pp}~1-112$ Book by V. S. Letokhov and N. D. Ustinov, "Sovetskoye radio" Publishers, $16,000~\mathrm{copies}$

USSR - O. SCIENTISTS AND SCIENTIFIC ORGANIZATIONS

JPRS L/9216 (24 Jul 80) 30 pp

USSR SCIENCE AND TECHNOLOGY POLICY

This non-serial report contains selected translations of Russian articles on the planning and administration of Soviet science and technology and the introduction of scientific achievements into industry.

JPRS L/9332 (6 Oct 80) 28 pp

SOVIET SCIENCE AND TECHNOLOGY POLICY

JPRS 75886 (16 Jun 80) 74 pp

SOVIET SCIENCE AND TECHNOLOGY POLICY

7

JPRS 76688 (24 Oct 80) 80 pp SOVIET SCIENCE AND TECHNOLOGY POLICY

JPRS 77035 (19 Dec 80) 85 pp

SOVIET SCIENCE AND TECHNOLOGY POLICY

INTERNATIONAL

JPRS L/9008 (1 Apr 80) 19 pp REFERENCE AID--DIRECTORY OF JPRS NON-SERIAL PUBLICATIONS JANUARY-DECEMBER 1979

t

CATEGORY II - AD HOC SOCIAL SCIENCES

USSR

JPRS L/8848 (8 Jan 80) 98 pp

NET PRODUCT AND NATIONAL INCOME OF A UNION REPUBLIC

Riga CHISTYY PRODUKT I NARODNYY DOKHOD SOYUZNOY RESPUBLIKI in Russian 1977 signed to press 6 Oct 77 pp 1-108
Book by G. Ya. Grantyn', "Zinatne" Publishing House, 1000 copies

JPRS L/8883 (25 Jan 80) 301 pp

S. V. IL'YUSHIN: SCIENTIST AND DESIGNER

Moscow UCHENYY I KONSTRUKTOR S. V. IL'YUSHIN in Russian 1978 signed to press 4 Dec 78 pp 1-207 Book edited by A. Ya. Kutepov et al., "Nauka" Publishers, 20,000 copies

JPRS L/8894 (30 Jan 80) 79 pp

SELECTED TRANSLATIONS ON THE PLANNING AND ADMINISTRATION OF SOVIET RESEARCH AND DEVELOPMENT

This ad hoc report contains selected translations of Russian articles on the planning and administration of Soviet research and development and the introduction of scientific achievements into industry.

JPRS L/8939 (21 Feb 80) 262 pp

ISLAM AND SOCIETY

Moscow ISLAM I OBSHCHESTVO in Russian 1978 signed to press 19 Jun 78 pp 1-254 Book by T. S. Saidbayev, "Nauka" Publishers, 11,000 copies

JPRS L/8951 (26 Feb 80) 122 pp

HANDBOOK FOR THE PARTY ACTIVIST

Moscow KNIZHKA PARTIYNOGO AKTIVISTA in Russian 1980 signed to press 22 Jun 79 pp 24-174 Pamphlet compiled by A. V. Shumakov, Politizdat Publishers, 500,000 copies; USSR

National Anthem and Introductory Biographical Information not Translated

JPRS L/9112 (27 May 80) 132 pp

CONSTITUTIONAL INTERRELATIONSHIPS BETWEEN THE PRESIDENT AND THE U.S. CONGRESS IN THE AREA OF FOREIGN POLICY

Kiev KONSTITUTSIONNYYE VZAIMOOTNOSHENIYA PREZIDENTA I KONGRESSA SSHA V OBLASTI VNESHNEY POLITIKI in Russian 1979 signed to press 13 Mar 79 pp 1-164 Book by Yu. I. Nyporko, Izdatel'stvo "Naukova dumka", 1300 copies, 164 pages

JPRS L/9123 (3 Jun 89) 198 pp

STRUCTURAL DESIGN OF CIVIL DEFENSE SHELTERS

Moscow RASCHET KONSTRUKTSIY UBEZHISHCH in Russian 1974 signed to press 14 Feb 74 pp 1-208
Book by M. D. Bodanskiy, L. M. Gorshkov et al., Stroyizdat Publishers, 24,000 copies

JPRS L/9124 (4 Jun 80) 60 pp

ISLAM AND THE NEW LIFE STYLE

Moscow NOVYY BYT I ISLAM in Russian 1979 signed to press 21 May 79 pp 1-63 Book by N. Bayramsakhatov, Politizdat, 75,000 copies

JPRS L/9337 (8 Oct 80) 63 pp

BOOK EXCERPTS: AIR DEFENSE OF GROUND TROOPS

Moscow PROTIVOVOZDUSHNAYA OBORONA SUKHOPUTNYKH VOYSK in Russian 1979 signed to press 17 Apr 79 pp 1-6, 71-79, 194-226, 269-299, 300-303 Book by Yu. A. Andersen, A. I. Drozhzhin, P. M. Lozik, Voyenizdat, 23,000 copies, 304 pages

JPRS L/9359 (22 Oct 80) 128 pp

ECONOMICS OF START-UP AND ADJUSTMENT OF NEW PRODUCTION

Moscow EKONOMIKA PUSKA I NALADKI NOVYKH PROIZVODSTV (Economics of Start-up and Adjustment of New Production) in Russian 1976 pp 3-137
Book by G. A. Kashlinskaya, Stroizdat, 1976, 139 pages, UDC 69.003:658.152.011.46

10

FOR OFFICIAL USE ONLY

JPRS L/9397 (17 Nov 80) 594 pp

USSR ECONOMY IN 1978: STATISTICAL YEARBOOK

Moscow NARODNOYE KHOZYAYSTVO SSSR V 1978: STATISTICHESKIY YEZHEGODNIK in Russian 1979 signed to press 10 Jul 79 pp 1-632
Book "Narodnoye Khozyaystvo SSSR v 1978g: Statisticheskiy Yezhegodnik" (The USSR National Economy in 1978: A Statistical Yearbook), USSR Central Statistical Administration, Izdatel'stvo "Statistika", 55,000 copies, 632 pages

JPRS L/9439 (12 Dec 80) 422 pp

THE SEA POWER OF THE STATE

Moscow MORSKAYA MOSHCH' GOSUDARSTVA in Russian 1979 signed to press 6 Aug 79 (2d ed, supplemented)
Book by S. G. Gorshkov, Admiral of the Fleet of the Soviet Union, Military Publishing House, 60,000 copies, 416 pages

JPRS 74958 (18 Jan 80) 24 pp

USSR STATE PRIZES FOR 1979

Moscow IZVESTIYA in Russian 7 Nov 79 pp 1, 3-5 Decree of the CPSU Central Committee and the USSR Council of Ministers, signed by General Secretary L. Brezhnev and Chairman of the USSR Council of Ministers A. Kosygin

JPRS 75340 (20 Mar 80) 49 pp

SOVIET RESEARCH AND DEVELOPMENT POLICY

This non-serial report contains selected translations of Russian articles on the planning and administration of Soviet research and $deve^{-1}$ people and the introduction of scientific achievements into industry.

JPRS 76291 (25 Aug 80) VAAP/SA-80/16, 223 pp

INTERNATIONAL COOPERATION IN SPACE: LEGAL QUESTIONS

Moscow MEZHDUNARODNOYE SOTRUDNICHESTVO V KOSMOSE, PRAVOVYYE VOPROSY in Russian 1977 signed to press 22 Jul 77 pp 1-264
Book by V. S. Vereshchetin, under the editorship of A. P. Movchan, Institute of State and Law of the USSR Academy of Sciences, Izdatel'stvo Nauka, 3600 copies, 264 pages; COPYRIGHT: Izdatel'stvo "Nauka," 1977

11

FOR OFFICIAL USE ONLY

JPRS 76778 (7 Nov 80) 57 pp

THE SOVIET ENCYCLOPEDIA ON ISLAM

This report contains translations of articles pertaining to Islam in the BOLSHAYA SOVETSKAYA ENTSIKLOPEDIYA [GREAT SOVIET ENCYCLOPEDIA].

JPRS 76787 (10 Nov 80) 204 pp

MATERIAL ON JUNE 1980 ALL-UNION CONFERENCE ON DEVELOPMENT OF SIBERIA

Novosibirsk IZVESTIYA SIBIRSKOGO OTDELENIYA AKADEMII NAUK SSSR-SERIYA OBSHCHESTVENNYKH NAUK in Russian No 6 [Issue 2], May 1980 signed to press 8 Apr 80 pp 10-152

Translation of material presented at the June 1980 All-Union Conference on Development of Siberia, Izdatel'stvo "Nauka", Sibirskoye Otdeleniye, 2240 copies, 160 pages

CHINA

JPRS 75007 (25 Jan 80) 198 pp

REFERENCE AID -- CURRENT CHINESE SERIAL PUBLICATIONS 1980 EDITION

Full translation of a list of publications provided by the Beijing Post Office, which includes all titles available for subscription through the Beijing Post Office as of January 1980. The list is presented in order of numerical code, as in the original. The first part of the numerical code indicates the province of publication, which is provided in standard Chinese abbreviation in the second column in this translation. (These abbreviations are spelled out in an appended list.) The titles are given first in Pinyin Romanization, then in Wade-Giles Romanization, and finally in English translation. In those cases for which the Chinese provide a Latin title (mostly journals of the Chinese Academy of Sciences), that title is given in the third line.

JPRS 75750 (22 May 80) 153 pp

SIMPLIFIED HANDBOOK ON ADMINISTRATIVE DIVISIONS OF THE PEOPLE'S REPUBLIC OF CHINA 1979

Beijing ZHONGHUA RENMIN GONGHEGUO XINGZHENG QUHUA JIANCE 1979 in Chinese 1979 pp 1-134

Complete translation of book compiled by the Ministry of Civil Affairs and published by the Map Publishing House. All place names are rendered in the Pinyin system of Romanization with the corresponding Chinese text appended in each section. The following abbreviations are used: auto for autonomous, ad for administrative, and c-g-c for central-government-controlled.

12

FOR OFFICIAL USE ONLY

JPRS 76055 (16 Jul 80) 109 pp

REFERENCE AID -- SUPPLEMENTAL LIST OF CURRENT CHINESE SERIAL PUBLICATIONS

This reference aid is a supplement to REFERENCE AID: CURRENT CHINESE SERIAL PUBLICATIONS 1980 EDITION, JPRS 75007, dated 25 January 1980, 198 pages. It contains the titles and other publication data of 216 new titles as well as old publications which have resumed publication since 1 January 1980.

CSO: 1100

END